

## ABSTRACT

An answer totaling and analyzing apparatus according to the present invention possesses an auxiliary light-projecting and receiving unit relaying a light-emitting and reception between a center unit and answer units, in addition to the center unit and the answer units exchanging signals by optical pulses. The center unit assigns answer periods of the respective answer units by answer command signals for the plural answer units. The respective answer units can reply answers for questions with a very small number of pulses by using a method in which contents of the answer are represented by a time position of an optical pulse transmission in the answer period assigned to the answer unit. The center unit discriminates the answer signals from the respective answer units by this communication method and detects the answer and totalizes and analyzes the answer. The light-emitting and receptions between the answer units and the center unit are relayed by using the auxiliary light-projecting and receiving unit, and thereby, it becomes possible to use in a large meeting room and to use a much number of answer units which are conventionally difficult, and a simple and stable answer totalizing and analyzing can be performed.